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April 1964

PHOTOGRAPHIC INTERPRETATION REPORT

Declassification review by NIMA/DOD

ICBM COMPLEX, YEDROVO, USSR



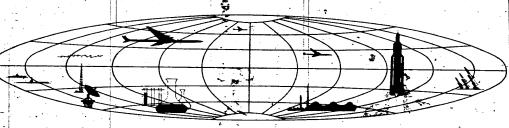


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PHOTOGRAPHIC INTERPRETATION REPORT

ICBM COMPLEX, YEDROVO, USSR

NPIC/R-224/64 April 1964

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NPIC R-224 64

 Launch Site A (1DI Site 2)
 57-48N

 Launch Site B (1DI Site 1)
 57-48N

 Launch Site C (1DI Site 5)
 57-49N

 Launch Site D (1DI Site 4)
 57-48N

 Launch Site E (1DI Site 8)
 57-52N

 Launch Site F (1DI Site 6)
 57-43N

 Launch Site G (1DI Site 7)
 57-47N

 Launch Site H (1DI Site 9)
 57-48N

57-45N 33-36E 57-45N 33-14E 57-45N 33-05E 57-45N 33-25E 57-45N 33-00E 57-45N 33-00E 57-47N 33-02E

25X1A

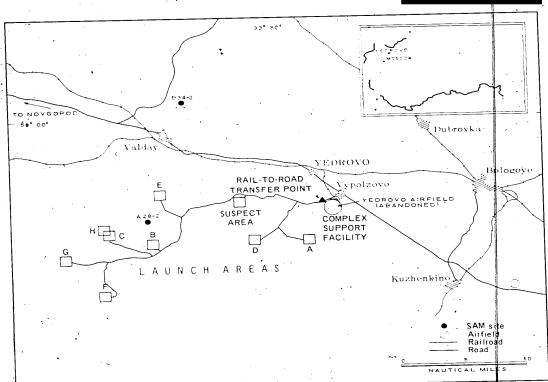


FIGURE 1. LOCATION OF COMPLEX.

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ICBM COMPLEX, YEDROVO, USSR

INTRODUCTION

The Yedrovo ICBM Complex is situated south and west of Yedrovo, which is 95 nautical miles (nm) northwest of Kalinin. The terrain'is forested, interspersed with numerous lakes, and generally level, with an average elevation of about 600 feet above sea tevel. The complex consists of a complex support facility, a rail-toroad transfer point, and S launch areas, 5 completed and 3 under construction (Ligure 1). The completed launch areas include 2 Type IIb sites (A and b., 2 Type III) sites (D and b., and one Type IHA site (E); those under construction include 2 Type IID sites (C and G) and one Type IIIA site (H). All six of the Type II sites are oriented on an azimuth of 290 degrees while the two hard sites (1, 2)

Hyare oriented on an azimuth of 30 degrees

characteristic of all curves and junctions in the

road network throughout the complex. Kail service is provided to the complex support facility

Wide-radius turns are

and the rail-to-road transfer point by a branch from the Bologove-Novgorod rail line, Scattered power traces are evident throughout the complex.

transfer point, and four launch areas vere first identified in not present on IALENI photography of

Subsequent missio

revealed a fifth launch area in

and the three other launch areas

during 1963.

Yedrovo ICBM Complex SAM Site A28-2,

Yedrovo ICBM Complex SAM Site B34-2,

25X1A

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COMPLEX SUPPORT FACILITY

The complex support facility (57-51N) is 41E/ is situated at the eastern end of the launch complex at the site of the abandoned Yedrovo Airfield, 4.5 nm south-southeast of Yedrovo. It is fail and road served, respectively, from the Bologoye-Novgorod rail line and from anighway running southeast from Yalday through Yedrovo. Consisting of a railhead and storage area, a large administration housing area, and a nousing area (Figures 2 and 3), the facility was first observed on photography of

and since then there have been no signifi-

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The railhead and storage area apprently utilizes many of the facilities present at the airfield during World War II, the most significant addition being three long and one short rail spurs ranging in length from 1,800 to 4,000 feet; the longer spurs are approximately 600 feet apart. The area is at least partially fence and there are two small fenced sections within it. Cloud cover on TALLENT photography of

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FIGURE 2. COMPLEX SUPPORT FACILITY.

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precludes determination of the status of the area at that time, but some of the buildings are present on

Just to the north and east of the railhead is a small rail-served area of unidentified function, apparently not fenced, that includes four buildings and a circular road pattern. · The administration housing area, approxi-

mately 0.8 nm northeast of the railhead and

storage area, contains about 200 buildings, many of which were in a state of disrepair in but have since been reconstructed. However, cloud cover on the photography precludes determination of the exact number of buildings present at that time. The housing area southeast of the railhead and storage area contains more than 50 buildings and a vehicle equipment pool.

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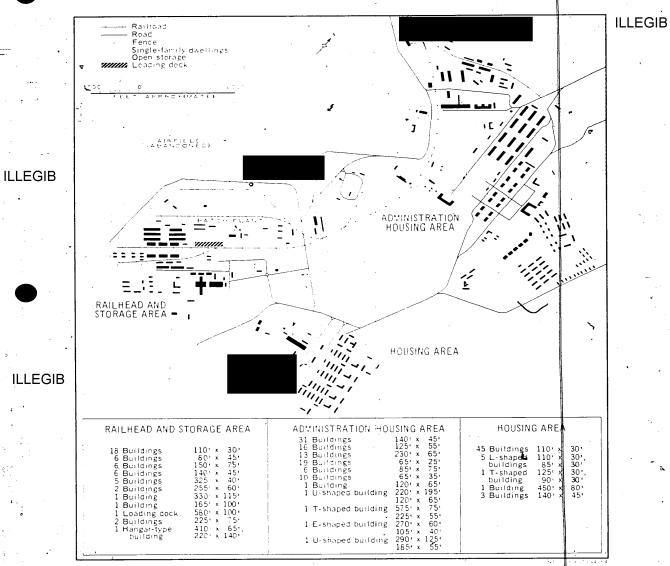


FIGURE 3. LAYOUT OF COMPLEX SUPPORT FACILITY.

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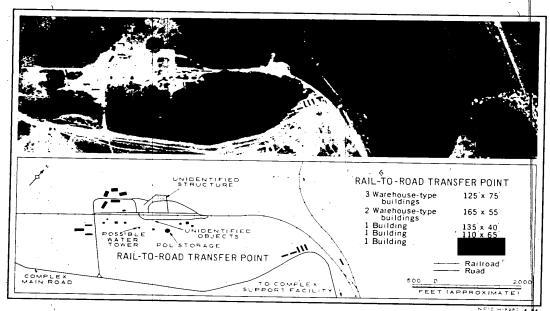


FIGURE 4. RAIL-TO-ROAD TRANSFER POINT.

RAIL-TO-ROAD TRANSFER POINT

The rail-to-road transfer point (57-52N 33-39L) is a completed loop type situated at the edge of a wooded area 1.5 nm northwest of the complex support facility (Figure 4). It was 25X1D first seen in time several buildings were under construction.

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were 5 warehouse-type buildings, 12 others of various sizes, and a POL tank, but no visible security measures. A well-engineered road having characteristic wide-radius turns connects the transfer point with the complet main road.

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LAUNCH AREA A

Launch Area A, consisting of a completed Type IIB launch site and a site support facility,

is situated in a wooded area 4.0 nm southwest of the complex support facility (Figure 5). First

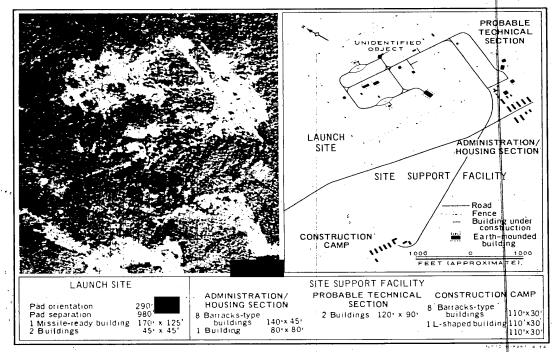


FIGURE 5. LAUNCH AREA A.

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25X1D 25X1D seen in _____ it can be negated on TALLENT photography of

and was considered to have

The launch site is in a clearing and is enclosed by a double security fence. An erectory shelter is in the center of each launch pad. A single earth-mounded missile-ready building is 600 feet to the rear of the left pad and is canted approximately 50 degrees outward. An unidentified object approximately 500 feet to the rear of the right pad measures 50 by 50 feet. Two earth-mounded buildings are to the left of

the center service road which is offset to the right.

The site support facility, 2,200 feet south of the launch site, consists of an administration housing section that includes eight barracks, type buildings, and a probable technical section that includes two large buildings in a clearing. A construction camp about 3,000 feet southwest of the launch site is apparently being dismantled.

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LAUNCH AREA B

Launch Area B, consisting of a completed Type 11B launch site and a site support facility, is situated in a wooded area 14.7 nm west-southwest of the complex support facility (Figure 6). First seen in

it can be negated on TALENT photography of

ind was considered to have been complete in

The launch site is in a partially cleared area and is enclosed by a double security fence. An 'erector,'shelter is in the center of each launch pad. A single missile-ready building is 400 feet to the rear of the left pad and is canted approximately 60 degrees outward. Two other

buildings, one earth mounded, are to the left of the center service road, which is offset to the right.

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The site support facility is approximately 2,500 feet southeast of the launch site and consists of an administration/housing section that includes 30 barracks-type buildings, and a possible technical section. A large cleared area, immediately to the east of the administration/housing section, has been present since the complex was first identified.

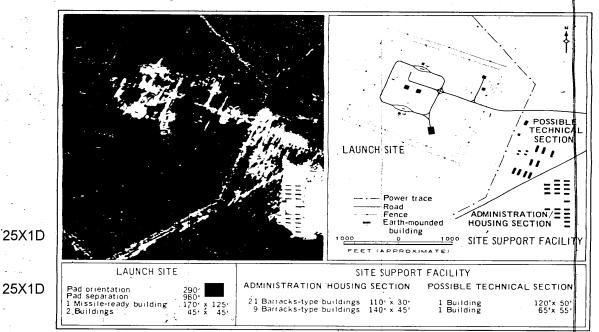


FIGURE 6. LAUNCH AREA B.

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LAUNCH AREA C

Launch Area C, consisting of a Type Hfg launch site in the midstage of construction and a site support facility Figure 7, is situated in a wooded area 177 nm west-southwest of the complex support facility. First seen in

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The launch site is in a clearing but no secu-

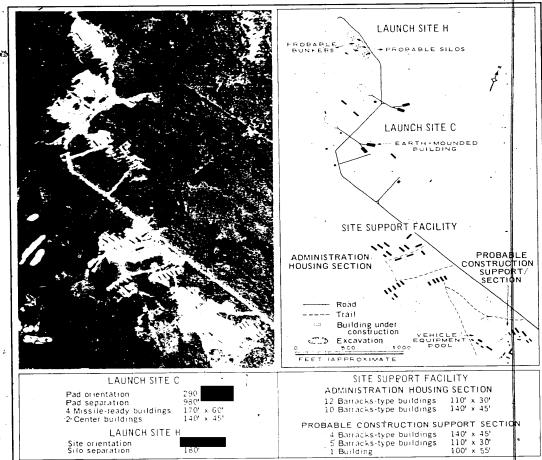


FIGURE T. LAUNCH AREAS C AND H.

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rity fencing is evident. I wo missile-ready buildings are situated 600 feet to the rear of each pad, all four canted from the pad azimuth: behind the right pad, the northern building is approximately 60 degrees outward and the southern building is approximately 15 degrees outward; behind the left pad, the earth-mounded building is approximately 25 degrees inward and the other building is approximately 10 degrees outward. Two buildings in line at the center of the site are apparently complete but two canted buildings

inboard of each launch pad are still under construction.

The site support facility, 3,000 feet to the southeast, is also probably utilized by Launch Area H, which is situated less than 1,500 feet north-northwest of the launch site. The facility consists of an administration housing section that includes 22 barracks-type buildings, and a probable construction support section that includes 9 barracks-type buildings and a vehicle equipment pool.

LAUNCH AREA D

Launch Area D, consisting of a completed Type IID launch site and a site support facility, is situated in a wooded area 7.6 nm southwest of the complex support facility (Figure 8). First observed in area can be negated on photography of

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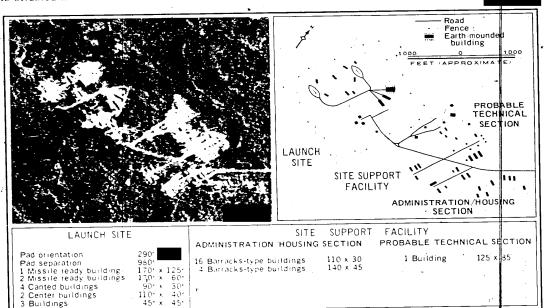


FIGURE S. LAUNCH AREA D

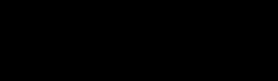
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and was considered to have been complete in

The launch site is in a clearing and is enclosed by a double security fence. A small structure apparent in the center of each pad is probably an erector shelter. Indeed, the ready buildings are to the read of the right launch pad: the northernmost building is earth mounded and canted approximately building is canted approximately 25 degrees outward, and the southernmost building is in line with the pad azimuth. Two canted buildings are inboard of each launch pad.



The site support facility, situated just outside the security fence to the rear of the launch site, consists of an administration housing section that includes 20 barracks-type buildings, and a probable technical section consisting of one large and two small buildings.

LAUNCH AREA E

Launch Area L, consisting of a completed * Type IIIA launch site and a site support facility,

is located in a wooded area 14.8 nm westnorthwest of the complex support facility (Fig-

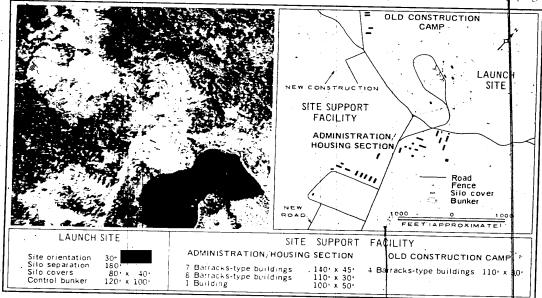


FIGURE 9. LAUNCH AREA E.

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beén complete in

The launch site is in a clearing and is enclosed by a double security fence. The launch silos and control bunker have all been backfilled, and the loop road pattern and three rectangular silo covers are visible:

The administration housing section of the

site support facility is situated about 2 000 . feet south of the launch site and includes at least 15 barracks-type buildings. Approximately: 3,000 feet to the northwest of this section are four other barracks type buildings which bre part of an old construction camp. In addition, there is an area of new construction about 1, 00 feet west of the launch site; also, a new road is being extended from the south end of the administration housing section.

LAUNCH AREA F

· Launch Area F consists of a complexed Type III) launen site ILLEGIBsituate

the complex support ideility (Figure

be negated on photogra

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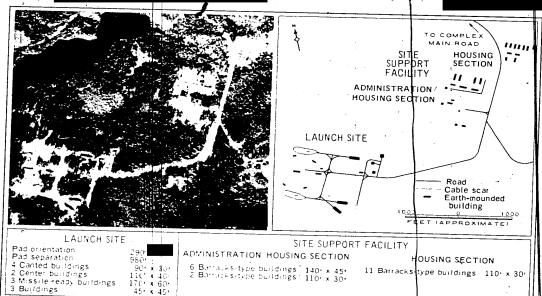


FIGURE TT. LAUNCH AREA F.

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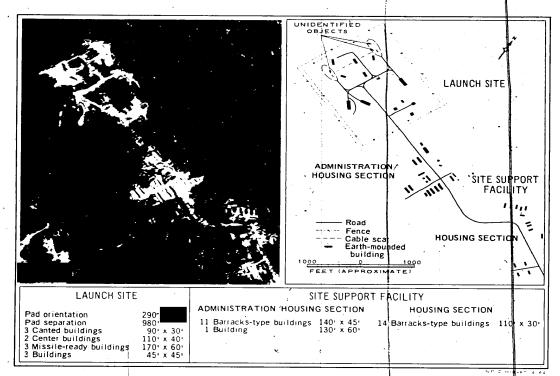
25X1D 25X1D

and was considered to have been complete

The launch site is in a cleared area and no security fencing is evident. An erector shelter is apparently present on each launch pad. A single missile-ready building is in line to the rear of the right launch pad and two others are to the rear of the left launch pad, the northernmost in line with the pad azimuth and the other canted approximately 25 degrees outward. Iwo earth-mounded buildings are to the left of the

center service road, which is offset to the right,

The site sepport facility, approximately 3,000 feet northeast of the launch site, contains at least 19 barracks-type buildings divided between an administration/housing section and a housing section.



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FIGURE 11. LAUNCH AREA G.

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photography of

LAUNCH AREA G

25X1D 25X1D Launch: Area G, consisting of a Type IID launch site in the midstage of construction and a site support facility, is situated in a wooded area 21.2 nm west-southwest of the complex support facility (Figure 11). It was first observed in and can be negated on

The launch site is in a cleared area and is enclosed by a double security fence. Three unidentified objects are visible in the pad area. Three missile-ready buildings are present, one in line to the rear of the right launch pad and two others to the rear of the left launch pad, the inboard building canted approximately 20 degrees

inward and the outboard building canted approximately 20 degrees outward. Three canted buildings are present inboard of the launch pads the two to the left appearing earth mounded. The two center buildings appear to have been completed. Roads and pads do not appear to be paved.

25X9

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The administration/housing section of the site support facility is 2,000 feet southeast of the launch site and includes 11 barracks-type buildings; farther southeast is a housing section consisting of 14 barracks-type buildings.

LAUNCH AREA H

Launch Area H consists of a Type IIIA launch site in the midstage of construction and a site support facility that is probably utilized by Launch Area C as well (Figure 7). The launch site is situated approximately 1,500 feet northnorthwest of the launch site of Launch Area C and 17.9 nm west-southwest of the complex support facility. The first evidence of the launch site was an excavation that was identified in

The site at that time was considered to be a suspect launch area, and in was reported as a complete Type III site. However, on photography of the Type III site of Launch Area C was identified, and the Type III site at H was negated and redesignated as an unidentified area of scarring. Continued study

of these and later coverages revealed that the initial identification of Launch Area H was correct, and that Launch Areas Cand Hare, in fact, collocated.

As of control bunker cannot be seen and evidently has been covered over, but a partially backfilled excavation containing five objects is visible. Two of these objects are indistinct and are probably the equipment bunkers; the other three objects appear to be square and are probably the silos though they do not have the canted position relative to each other that has been observed at other Type IIIA launch sites. However, dimensions at the site are consistent with those at other Type IIIA launch sites.

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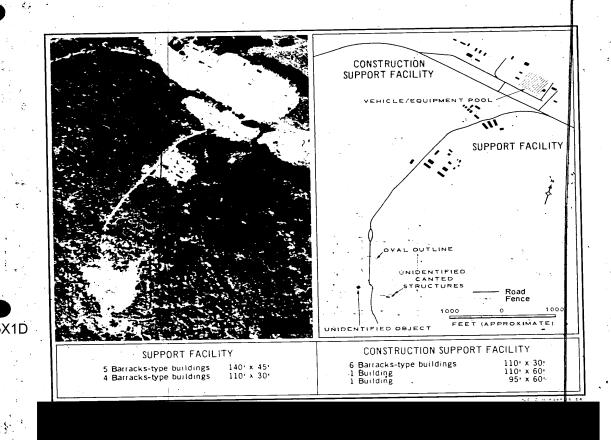
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25X1B

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25X1B

A small support facility, situated approximately 2,800 feet to the north along the access road, is probably associated with this area. It contains approximately 24 buildings, including 9 of the barracks type, and is divided into two groups.

Farther to the north is a construction support facility that consists of a group of buildings and a vehicle equipment pool. This picility appears similar to one situated near Launch Areas C and H, both of which are apparently used for construction support purposes. This facility was present when the complex was first observed in an and since then the only change has been the removal of some of the buildings.

25X1D

REFERENCES

PHOTOGRAPHY

25X1D

MAPS OR CHARTS

USATC. Series 200, Sheet 454-11A, 1st ed. Nov 58, scale 1:200,000 (SECRET)

REQUIREMENT

NPIC. PC 806-63 (partial answer)

SPIC PROJECT

J-368 60/(partial answer)